

Work Order ID 104433

104433

Page 1

July-10-13 3:25:49 PM

Item ID: D350-602-011

Accept

N900040100

Setup Start *NS1*

Revision ID:

Stop *NS2*

Item Name: Heli-Utility-Pod(Fits LH or RH)

Start Date: 7/10/13 Start Qty: 1.00

1

Cust Item ID:

Required Date: 8/09/13 Req'd Qty: 1.00

1

Customer:

Reference:

Approvals:

Process Plan:

Date:

Tooling:

Date:

QC:

Date:

SPC (Y/N):

Date:

Run Start *NR1*

Stop *NR2*

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
Draw Nbr	Revision Nbr								
DSI 9515	B								
100	DOCUMENT CONTROL	0.00							
100									
DC	Memo	0.00							
Document Control	Photocopy bluefile & type labels per PPP	D350-602-011	CHG006						
110	Pick Kit	0.00							
110									
Packaging	Memo	0.00							
Packaging									
120	QC4- 100% Inspect kits for completeness	0.00							
120									
QC	Memo	0.00							
Quality Control									

DAS
6
9-89

13/10/19

MLH

DAS
32
9-89

13/11/14

U

DAS
6
9-89

13/10/19

1

Work Order ID 104433

104433

Page 2

July-10-13 3:25:49 PM

Item ID: D350-602-011 Accept *N900040100* Setup Start *NS1*
 Revision ID: Stop *NS2*
 Item Name: Heli-Utility-Pod(Fits LH or RH)
 Start Date: 7/10/13 Start Qty: 1.00 *1* Cust Item ID:
 Required Date: 8/09/13 Req'd Qty: 1.00 *1* Customer:
 Reference:

Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____ Run Start *NR1*
 QC: _____ Date: _____ SPC (Y/N): _____ Date: _____ Stop *NR2*

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
130	Packaging	0.00							
130									
Packaging	Memo	0.00							DAS 6 9-89
Packaging	Identify and pack for shipping as per PPPD350-602-011								
	Location: _____								
	PPP Rev: _____								
140	QC21- Final Inspection - Work Order Release	0.00							
140									
QC	Memo	0.00							
Quality Control									

Handwritten: 13/12/30
 MJS 13-12-23

Picklist Print

July-10-13 3:25:48 PM

Page 1/5

Work Order ID: 104433

Parent Item: D350-602-011

Parent Item Name: Heli-Utility-Pod(Fits LH or RH)

Start Date: 7/10/13

Required Date: 8/09/13

Start Qty: 1.00

Required Qty: 1.00

Comments: IPP Rev:F Removed Travellers 06-04-06 JLM
IPP Rev:G Added D3495-1 06-05-17 JLM
10-04-27 JLM VERIFIED BY:DD

IPP REV:H AS PER ECN10-558

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
D2324 Strut Assy		Manufactured	No			110	Each	13.0000	1	1	98393	32 9-89	DAS
				<u>Location</u>		<u>Loc Qty</u>		<u>Loc Code</u>					DAS
				ST255		13							32 9-89
				100928		7							
				98393		6							
D2694 Pod, 350/407		Manufactured	No			110	Each	0.0000	1	1	104435	32 9-89	DAS
D4091-1 MOUNTING LUG		Manufactured	No			110	Each	17.0000	4	4	106063 24	32 9-89	DAS
				<u>Location</u>		<u>Loc Qty</u>		<u>Loc Code</u>					DAS
				ST144		17							32 9-89
				100346		12							
				97517		5							
D3910-3 X-TUBE LUG		Manufactured	No			110	Each	37.0000	4	4	103057 24	32 9-89	DAS
				<u>Location</u>		<u>Loc Qty</u>		<u>Loc Code</u>					DAS
				ST464		37							32 9-89
				100508		20							
				85694		1							
				91955		14							
				92865		2							

13/11/14

DAS
32
9-89

Picklist Print

July-10-13 3:25:48 PM

Page 2

Work Order ID: 104433

Parent Item: D350-602-011

Parent Item Name: Heli-Utility-Pod(Fits LH or RH)

Start Date: 7/10/13

Required Date: 8/09/13

Start Qty: 1.00

Required Qty: 1.00

D2258-160
Placard

Manufactured No

110 Each 12.0000

1 1

DAS
32
9-89
DAS

Location

Loc Qty

Loc Code

Return2012

2

62072

2

ST007

10

62072

4

84437

6

89437

DAS
32
9-89

Manufactured No

110 Each 0.0000

2

2 702475

D2523
Mounting Bracket

D2524
Bracket clamping

DAS
6
9-89

Location

Loc Qty

Loc Code

ST479

2

86918

2

Manufactured No

110 Each 7.0000

1

1

DAS
32
9-89

D3495-1
PLACARD

Location

Loc Qty

Loc Code

Return2012

3

65128

3

ST053

4

55564

1

65128

3

65128

DAS
32
9-89

Manufactured No

110 f 98.0010

2

2

D3984
RUBBER EXTRUSION, X-TUBE, PER FOOT
CUT 8 AT 3.00"

Location

Loc Qty

Loc Code

ST408

98

103101

98

ST411

0.001

53707

0.001

103101

13/11/14

DAS
6
9-89

DAS
31
9-89

July-10-13 3:25:49 PM

Shop Packet Print

Page 2

Picklist Print

July-10-13 3:25:49 PM

Page 3

Work Order ID: 104433

Parent Item: D350-602-011

Parent Item Name: Heli-Utility-Pod(Fits LH or RH)

Start Date: 7/10/13

Required Date: 8/09/13

Start Qty: 1.00

Required Qty: 1.00

AN3-1A Bolt Purchased No 110 Each 238.0000 4 4 *M122020* DAS 32 9-89

Location	Loc Qty	Loc Code
ST351	138	
124221	4	
124805	10	
M125716	124	
ST511	100	
M126175	100	

DAS 6 9-89

AN3-1SA Bolt Purchased No 110 Each 36.0000 8 8 DAS 32 9-89

Location	Loc Qty	Loc Code
FG	7	
114941	7	
ST351	7	
M125952	7	
ST352	22	
114941	3	
116419	19	

DAS 6 9-89

AN4-12A Bolt Purchased No 110 Each 298.0000 1 1 *M125952 3x* *116419 5x* DAS 32 9-89

Location	Loc Qty	Loc Code
FG	10	
120423	10	
ST356	288	
120423	88	
M126105	200	

DAS 6 9-89

13/11/14 DAS 32 9-89

July-10-13 3:25:49 PM

Shop Packet Print

Page 3

Picklist Print

July-10-13 3:25:49 PM

Page 4

Work Order ID: 104433
 Parent Item: D350-602-011
 Parent Item Name: Heli-Utility-Pod(Fits LH or RH)

Start Date: 7/10/13

Required Date: 8/09/13

Start Qty: 1.00

Required Qty: 1.00

AN414A Purchased No

110 Each 775.0000

16

16

DAS
32
9-89

BOLT

Location	Loc Qty	Loc Code
FG	5	
122141	5	
ST007	20	
121349	20	
ST351	3	
124215	3	
ST357	7	
115374	1	
123352	6	
ST514	400	
M126105	400	
ST517	340	
124221	340	

121349 YP

M126105 12P

DAS
32
9-89

DAS
32
9-89

AN416A Purchased No

110 Each 528.0000

4

4 M125427

BOLT

Location	Loc Qty	Loc Code
FG	5	
121541	5	
ST357	8	
124215	8	
ST514	247	
125427	200	
M126073	47	
ST515	200	
125396	200	
ST517	68	
125388	68	

DAS
32
9-89

DAS
32
9-89

DAS
32
9-89

AN960JD10 WASHER Purchased No

110 Each 0.0000

24

24 M126319

AN960JD416 Washer Purchased No

110 Each 0.0000

42

42 M126221

DAS
32
9-89

DAS
32
9-89

July-10-13 3:25:49 PM

Shop Packet Print

13/11/14

Picklist Print

July-10-13 3:25:49 PM

Page 5

Work Order ID: 104433

Parent Item: D350-602-011

Parent Item Name: Heli-Utility-Pod(Fits LH or RH)

Start Date: 7/10/13

Required Date: 8/09/13

Start Qty: 1.00

Required Qty: 1.00

MS21042L3

Purchased

No

110

Each

3,409.0000

12

12

M/26 333

DAS
32
9-89

Nut

Location

Loc Qty

Loc Code

FP001

3

122141

3

GA

18

122452

18

ST314

1768

111668

1

117885

32

119017

55

119075

138

123265

43

M126036

1499

ST506

1620

123900

912

124291

708

DAS
32
9-89

MS21042L4

Purchased

No

110

Each

1,626.0000

21

21

M/26 275

DAS
32
9-89

Nut

Location

Loc Qty

Loc Code

FP001

50

122452

38

8182

12

ST314

259

m125708

259

ST506

12

121444

12

st507

1083

125535

107

m126073

976

ST518

222

124231

222

13/11/14 (1)

DAS
32
9-89

July-10-13 3:25:49 PM

Shop Packet Print

Page 5

13/12/19

DAS
6

6.0 PART LIST (D350-602 Rev. E)
25.7 PARTS LIST (ICA-D350-602 Rev. 0)

Qty D350-602 -013	Qty D350-602 -013	Qty D350-602 -014	Qty DSI9052 -013	Part Number	Description
X				D350-602-011	HELL-UTILITY-POD™ (FITS BOTH LH/ RH)
	X			D350-602-013	HELL-UTILITY-POD™, LH
		X		D350-602-014	HELL-UTILITY-POD™, RH
			X	DSI9052-013	QUICK RELEASE KIT
				D2694	POD ASSEMBLY (LH OR RH)
	1			D3322-041	POD ASSEMBLY (LH)
		1		D3322-042	POD ASSEMBLY (RH)
1	1	1		*D2202-1	POD LID
1				*D2202-3	POD BASE
				*D2202-5	POD BASE
5	5	5		*D2204-9	LATCH
1	1	1		*D2429-041	SPRING CLIP ASSEMBLY
1	1	1		*D2461-1700	NEOPRENE 'D' SEAL
6	5	5		*D2528-1	BACKER PLATE
4	4	4		*D2528-3	BACKER PLATE
1	1	1		*D2569	HINGE
1	1	1		*D3007-041	PROP ASSEMBLY
1	1	1		** D2012-107	CLEVIS
2	2	2		** D2022-101	SPACER
1	1	1		** D2705	SUPPORT BRACKET
1	1	1		** D3007-1	STRUT
1	1	1		** D3015-3	LOCKNUT
1	1	1		** AN4-10A	BOLT
1	1	1		** AN960JD416	WASHER
1	1	1		** MS21042L4	NUT (OR MS21042-4)
1	1	1		** SL69-BS	BALL STUD
1	1	1		** AN960JD516	WASHER
19	19	19		AN4-5A	BOLT
1	1	1		AN4-6A	BOLT
2	2	2		AN526C632R7	SCREW
21	21	21		AN960JD416	WASHER
2	2	2		AN960JD6	WASHER
2	2	2		MS21042L06	NUT (OR MS21042-06)
20	20	20		MS21042L4	NUT (OR MS21042-4)
4	4	4		D409111	LUG
4	4	4		D39103	LUG
1	1	1		ID2258-160	LABEL
1	1	1		ID2324	STRUT ASSEMBLY
2	2	2		D2523	MOUNTING BRACKET
2	2	2		D2524	SIDE PLATE
1	1	1		D3495-111	PLACARD
8	8	8		D3984-0307	RUBBER EXTRUSION
4	4	4		AN3-7A	BOLT
8	8	8		AN3-15A	BOLT
1	1	1		AN4-12A	BOLT
16	16	16		AN4-14A	BOLT
4	4	4		AN4-16A	BOLT
24	24	24		AN960JD10	WASHER
42	42	42		AN960JD416	WASHER
12	12	12		MS21042L3	NUT (OR MS21042-3)
21	21	21		MS21042L4	NUT (OR MS21042-4)
			1	BLRS-010	QUICK RELEASE PIN (1" GRIP)
			3	BLRS-020	QUICK RELEASE PIN (1.5" GRIP)

* INCLUDED IN D2694 OR D3322-041/-042 POD ASSEMBLIES LISTED ABOVE

** INCLUDED IN D3007-041 PROP ASSEMBLY LISTED ABOVE

CANADA
DEPARTMENT OF TRANSPORT
AIRCRAFT CERTIFICATION
BRANCH
DAO # 01-O-01

APPROVED

BY:

D. SHEPHERD (DE # 02)

DATE: 10.04.23

CERT. NO.: SH93-97

ISSUE NO.: 4

DESIGN	90	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA
DRAWN	90	
CHECKED	1	DRAWING NO. REV. B
MFG. APPR.	N/A	DSI 9515 SHEET 2 OF 4
APPROVED	MD	TITLE SCALE
DE APPR.	MD	LUG MODIFICATION NTS
DATE	10.04.23	COPYRIGHT © 2010 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.

DART SERVICE INSTRUCTION

TO AMEND INSTALLATION INSTRUCTIONS D350-602 REV E (OR EARLIER REV.)
AND INSTRUCTIONS FOR CONTINUOUS AIRWORTHINESS ICA-D350-602 REV. 0

REF. TCCA STC: SH93-97

REF. FAA STC: SR01144NY

REF. EASA STC: EASA.IM.R.S.01290

PURPOSE

Dart Heli-Utility-Pods D350-602-011 @ CHG 006 and D350-602-013/-014 @ CHG 002 have new attachment lugs.

CHANGE

The D2230-1/-3 clamps are replaced with wider D4091-1/D3910-3 lugs. The abrasion strip is replaced with D3984-030 rubber extrusion. The D2462-1700 Neoprene Seal is replaced with D2461-1700 Neoprene 'D' Seal. The modified parts list for Installation Instruction D350-602 and Instructions for Continued Airworthiness ICA-D350-602 is shown on sheet 2 of this service instruction. Install the lugs as shown in Figure 1 & 2 of this service instruction. The pod should otherwise be installed per D350-602 and maintained per ICA-D350-602.

The weight and balance for Dart Heli-Utility-Pods D350-602-011 @ CHG 006 and D350-602-013/-014 @ CHG 002 (or later) are updated as follows:

5.0 WEIGHT AND BALANCE (D350-602 Rev. E)

25.6 WEIGHT AND BALANCE (ICA-D350-602 Rev. 0)

The following weight and balance information is for the Dart *Heli-Utility-Pod™*. The weight and balance of any parts that are removed from the aircraft to perform this installation or equipment installed/stowed in the pods are the responsibility of the installer.

Installation	Weight	LATERAL		LONGITUDINAL	
		Arm	Moment	Arm	Moment
D350-602-011 @ CHG 006	61.2 lb	±51.0 in	±3121 in-lb	135 in	8262 in-lb
Heli-Utility-Pod™ LH or RH	27.8 kg	±1.29 m	±35.9 m-kG	3.43 m	95.4 m-kG
D350-602-013 @ CHG 002	61.2 lb	-51.0 in	-3121 in-lb	135 in	6872 in-lb
Heli-Utility-Pod™ LH	27.8 kg	-1.29 m	-35.9 m-kG	3.43 m	79.2 m-kG
D350-602-014 @ CHG 002	61.2 lb	+51.0 in	+3121 in-lb	135 in	6872 in-lb
Heli-Utility-Pod™ RH	27.8 kg	+1.29 m	+35.9 m-kG	3.43 m	79.2 m-kG

LUG UPGRADE KIT

The Dart DSI-9515-011 kit is available to upgrade D350-602-XXX Heli-Utility-Pods made to earlier change numbers with D4091-1 / D3910-3 lugs. The lugs should be installed per Figure 1 & 2 of this service instruction.






QTY -011	Part Number	Description
X	DSI-9515-011	LUG UPGRADE KIT
4	D4091-1	LUG
4	D3910-3	LUG
8	D3984-030	RUBBER EXTRUSION
16	AN4-14A	BOLT
32	AN960JD416	WASHER (OR NAS1149DO463J)
16	MS21042L4	NUT (OR MS21042-4)

CANADA
DEPARTMENT OF TRANSPORT
AIRCRAFT CERTIFICATION
BRANCH
DAO # 01-O-01

APPROVED

BY: 
D. SHEPHERD (DE # 02)

DATE: 10.04.23
CERT. NO.: SH93-97
ISSUE NO.: 4

B	NAS1149DO463J WAS xDN432J & CHG QTY	CP	10.04.23
A	NEW ISSUE	CP	10.03.30
REV.	DESCRIPTION	BY	DATE
DESIGN		DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWN			
CHECKED		DRAWING NO.	REV. B
MFG. APPR.	N/A	DSI 9515	SHEET 1 OF 4
APPROVED		TITLE	SCALE
DE APPR.		LUG MODIFICATION	NTS
DATE	10.04.23	COPYRIGHT © 2010 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.	

Work Order ID 104433

July-10-13 3:25:49 PM

104433

Page 1

Item ID: D350-602-011

Revision ID:

Item Name: Heli-Utility-Pod(Fits LH or RH)

Start Date: 7/10/13 Start Qty: 1.00

Required Date: 8/09/13 Req'd Qty: 1.00

Reference:

Accept

N900040100Setup Start ***NS1***Stop ***NS2***

Cust Item ID:

Customer:

Approvals: Process Plan: 

QC:

Date:

Tooling:

Date:

Run Start ***NR1***

Date:

SPC (Y/N):

Date:

Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description
--------------------------------	--------------------------

Draw Nbr	Revision Nbr
----------	--------------

DSI 9515	B
----------	---

100

100

DC

DOCUMENT CONTROL

0.00

Document Control

Memo

0.00

Photocopy bluefile & type labels per PPP D350-602-011 CHG006

MCJ 13-12-19

110

Pick Kit

0.00

110

Packaging

Memo

0.00

Packaging

DAS
32
9-89

13/11/14 (U)

120

QC4- 100% Inspect kits for completeness

0.00

120

QC

Memo

0.00

Quality Control